

Form PTO-1449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7331

SERIAL NO.

09/410,800

## INFORMATION DISCLOSURE CITATION

APPLICANT

ACHARYA, et al.

FILING DATE

10/01/99

GROUP

2712

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
nt	5,875,122	02/23/99	Acharya			
nt	5,995,210	11/30/99	Acharya			
nt	6,009,201	12/28/99	Acharya			
nt	6,009,206	12/28/99	Acharya			
nt	6,047,303	4/4/2000	Acharya			
nt	08/130,243	8/6/98	Acharya			
nt	08/963,335	11/3/97	Goldstein et al.			
nt	08/885,415	6/30/97	Acharya			
nt	09/008,131	1/16/98	Acharya et al.			
nt	09/018,601	2/4/98	Acharya			
nt	09/034,625	3/4/98	Acharya			

JUN 10 8 20AM  
Group 2700

RECEIVED

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

nt	H. H. Nguyen, P. Cohen, "Gibbs Random Fields, Fuzzy Clustering, and the Unsupervised Segmentation of Textured Images," Graphical Models and Image Processing, Vol 55, No. 1, pps. 1-19, January 1993.
nt	C. Jawahar, A. Ray, "Techniques and Applications of Fuzzy Statistics in Digital Image Analysis," Fuzzy Theory Systems: Techniques and Applications, Vol. 2, pps. 759-778, 1999.
nt	S. K. Pal, A. Ghosh, "Image Segmentation Using Fuzzy Correlation," Information Sciences No. 62, pps. 223-250, 1992.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7331

SERIAL NO.

09/410,800

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

ACHARYA, et al.

FILING DATE

10/01/99

GROUP

2712

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
nt	09/163,022	09/29/98	Acharya et al.			
	08/978,786	11/26/97	Acharya et al.			
	09/482,551	01/13/00	Acharya et al.			
	08/963,525	11/3/97	Acharya			
	09/482,552	1/13/2000	Acharya			
	08/114,720	7/13/98	Acharya			
	09/050,743	3/30/98	Acharya			
	09/963,097	11/3/97	Booth et al.			
	08/986,761	12/8/97	Acharya et al.			
	09/154,176	9/16/98	Acharya			
nt	08/963,334	11/3/97	Acharya			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

nt	S. K. Pal, N. R. Pal, "Segmentation Based on Measures of Contrast, Homogeneity, and Region Size," IEEE, Vol. SMC-17, No. 5, pps. 857-868, September/October 1987.
nt	M. Trivedi, J. Bezdek, "Low-Level Segmentation of Aerial Images with Fuzzy Clustering," IEEE, Vol. SMC-16, No. 4, pps. 589- 597, July/August 1986.
nt	H.J. Zimmermann, "Fuzzy Set Theory and Its Applications (Second, Revised Edition)," Allied Publishers Limited, pps. 34-35, 46-49

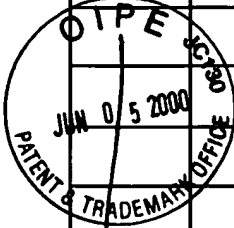
EXAMINER

*Whanlan*

DATE CONSIDERED

7/31/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



RECEIVED  
JUN 08 2000  
Group 2700

Form PTO-1449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7331

SERIAL NO.

09/410,800

## INFORMATION DISCLOSURE CITATION

APPLICANT

ACHARYA, et al.

FILING DATE

10/01/99

GROUP

2712

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
nt	08/986,461	12/08/97	Acharya et al.			
	09/258,636	02/26/99	Acharya et al.			
	09/048,901	03/26/98	Acharya			
	09/040,806	3/18/98	Acharya			
	09/301,753	4/29/99	Acharya et al.			
	09/083,383	5/21/98	Acharya et al.			
	09/109,475	7/2/98	Acharya et al.			
	09/140,517	8/26/98	Acharya			
	09/129,728	8/5/98	Acharya			
	09/146,159	9/3/98	Acharya			
nt	09/152,703	9/14/98	Acharya			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

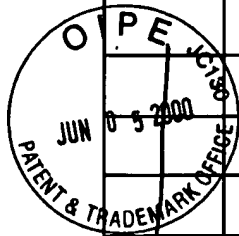
Whomlam

DATE CONSIDERED

7/31/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED



Form PTO-1449  
(REV. 8-83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7331

SERIAL NO.

09/410,800

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

ACHARYA, et al.

FILING DATE

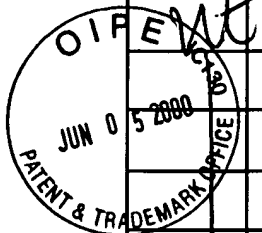
10/01/99

GROUP

2712

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	09/126,203	07/30/98	Bawolek e tal.			
	09/258,118	02/24/99	Vavro et al.			
	09/207,753	12/08/98	Acharya			
	09/272,751	3/17/99	Acharya et al.			
	09/165,511	10/2/98	Acharya et al.			
	09/199,836	11/24/98	Bawolek et al.			
	09/320,192	5/26/99	Acharya et al.			
	09/211,309	12/14/98	Acharya et al.			
	09/438,091	11/10/99	Acharya et al.			
	09/342,863	6/29/99	Acharya et al.			
	09/191,310	11/13/98	Acharya et al.			



JUN 08 2000  
Group 2700

RECEIVED

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*W. H. H. H. H.*

DATE CONSIDERED

7/31/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449  
(REV. 8-83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7331

SERIAL NO.

09/410,800

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

ACHARYA, et al.

FILING DATE

10/01/99

GROUP

2712

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	09/383,117	08/25/99	Acharya et al.			
	09/291,810	04/14/99	Acharya			
	09/292,763	04/14/99	Acharya et al.			
	09/390,255	9/3/99	Acharya et al.			
	09/329,632	6/10/99	Acharya et al.			
	09/328,935	6/9/99	Acharya et al.			
	09/359,831	7/23/99	Acharya et al.			
	09/359,523	7/23/99	Acharya et al.			
	09/406,032	9/27/99	Acharya			
	09/410,800	10/1/99	Acharya et al.			
	09/411,697	10/1/99	Acharya et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*M. Hamblan*

DATE CONSIDERED

7/31/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



RECEIVED

JUN 10 8 2000  
Group 2700

Form PTO-1449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7331

SERIAL NO.

09/410,800

## INFORMATION DISCLOSURE CITATION

APPLICANT

ACHARYA, et al.

FILING DATE

10/01/99

GROUP

2712

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
nt	09/461,080	12/14/99	Acharya			
	09/461,068	12/14/99	Acharya			
	09/432,337	11/02/99	Acharya			
	09/429,058	10/29/99	Acharya et al.			
	09/467,487	12/20/99	Acharya et al.			
	09/467,611	12/20/99	Acharya et al.			
	09/473,643	12/28/99	Acharya et al.			
	09/494,087	1/28/2000	Acharya			
	09/507,213	2/25/2000	Acharya et al.			
	09/507,399	2/25/2000	Acharya et al.			
nt	09/519,135	3/6/2000	Acharya et al.			

## FOREIGN PATENT DOCUMENTS

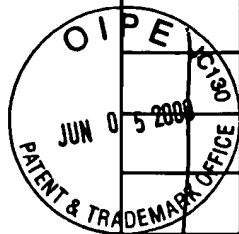
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
<i>[Signature]</i>	7/31/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED







# Electronic Information Disclosure Statement

## METHOD OF INTERPOLATING COLOR PIXEL SIGNALS FROM A SUBSAMPLED COLOR IMAGE

Application:   
09/410800

Confirmation: 7498

Applicant(s): Tinku Acharya

Docket Number: 42390P7331

Group Art Unit: unknown

Examiner: Unknown

search string: ( 5,014,134 or 5,321,776 or 5,392,255 or 5,398,066 or 5,491,561 or 5,541,653 or 5,602,589 or 5,706,220 or 5,737,448 or 5,892,847 or 5,901,242 or 6,091,851 or 6,094,508 or 6,108,453 or 6,124,811 or 6,130,960 or 6,151,069 or 6,151,415 or 6,154,493 or 6,166,664 or 6,178,269 or 6,195,026 or 6,215,908 or 6,215,916 or 6,229,578 or 6,233,358 or 6,236,433 or 6,236,765 or 6,275,206 or 6,285,796 or 6,292,114 or 6,301,392 or 6,348,929 or 6,356,276 or 6,366,692 or 6,366,694 or 6,373,481 or 6,377,280 or 6,381,357 or 6,392,699 ).pn.





RECEIVED

NOV 27 2002

Technology Center 2600

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P01	5,014,134	1991-05-07		Lawton, et al.		
	P02	5,321,776	1994-06-14		Shapiro		



gnt	P03	5,392,255	1995-02-21		LeBras, et al.
	P04	5,398,066	1995-03-14		Martinez-Uriegas, et al.
	P05	5,491,561	1996-02-13		Fukuda
	P06	5,541,653	1996-07-30		Peters, et al.
	P07	5,602,589	1997-02-11		Vishwanath, et al.
	P08	5,706,220	1998-01-06		vafai, et al.
	P09	5,737,448	1998-04-07		Gardos
	P10	5,892,847	1999-04-06		Johnson
	P11	5,901,242	1999-05-04		Crane, et al.
	P12	6,091,851	2000-07-18		Tinku Acharya
	P13	6,094,508	2000-07-25		Tinku Acharya, et al.
	P14	6,108,453	2000-08-22		Tinku Acharya
	P15	6,124,811	2000-09-26		Tinku Acharya, et al.
	P16	6,130,960	2000-10-10		Tinku Acharya
	P17	6,151,069	2000-11-21		Lawrence Booth, Jr, et al.
	P18	6,151,415	2000-11-21		Tinku Acharya, et al.
	P19	6,154,493	2000-11-28		Tinku Acharya, et al.
	P20	6,166,664	2000-12-26		Tinku Acharya
gnt	P21	6,178,269	2001-01-23		Tinku Acharya



RECEIVED

NOV 27 2002

Technology Center 2600

P22	6,195,026	2001-02-27		Tinku Acharya
P23	6,215,908	2001-04-10		David Vavro, et al.
P24	6,215,916	2001-04-10		Tinku Acharya
P25	6,229,578	2001-05-08		Tinku Acharya, et al.
P26	6,233,358	2001-05-15		Tinku Acharya
P27	6,236,433	2001-05-22		Tinku Acharya, et al.
P28	6,236,765	2001-05-22		Tinku Acharya
P29	6,275,206	2001-08-14		Tinku Acharya, et al.
P30	6,285,796	2001-09-04		Judith Goldstein, et al.
P31	6,292,114	2001-09-18		Tinku Acharya, et al.
P32	6,301,392	2001-10-09		Tinku Acharya
P33	6,348,929	2002-02-19		Tinku Acharya, et al.
P34	6,356,276	2002-03-12		Tinku Acharya
P35	6,366,692	2002-04-02		Tinku Acharya
P36	6,366,694	2002-04-02		Tinku Acharya
P37	6,373,481	2002-04-16		Tinku Acharya, et al.
P38	6,377,280	2002-04-23		Tinku Acharya, et al.
P39	6,381,357	2002-04-30		Tinku Acharya, et al.
P40	6,392,699	2002-05-		Tinku Acharya



**RECEIVED**  
 NOV 27 2002  
 Technology Center 2600

## Remarks

(Remarks are not for responding to an office action.)

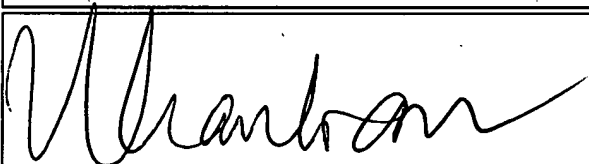
Applicants, in accordance with their duty of disclosure under 37 CFR 1.56 and in accordance with 37 CFR 1.97(b)(3), hereby submit this Electronic Information Disclosure Statement citing U.S. Patent Documents for consideration by the Examiner. Pursuant to 37 CFR 1.97, the submission of this Electronic Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability. This Information Disclosure Statement is being filed prior to a substantive examination of the claims. Pursuant to 37 CFR 1.97(b), no fee should be required for the filing of this Information Disclosure Statement. In the event it is determined that a fee is due, please charge the fee to Deposit Account 02-2666. Applicants respectfully requests that the cited documents be considered and that the form be initialed by the Examiner to indicate such consideration and a copy thereof be returned to Applicants' attorney of record.

RECEIVED

NOV 27 2002

Signature

Technology Center 2600

Examiner Name	Date
	7/31/03

leave type a plus sign (+) inside this box → ☐

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

## Complete if Known

Application Number	09/410,800
Filing Date	October 1, 1999
First Named Inventor	Tinku Acharya
Group Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	42390P7331

Sheet 1 of 3

IDS cite1 no other

## OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
mt	1	JOHNSON, "METHOD FOR TRANSFERRING AND DISPLAYING COMPRESSED IMAGES", Pub No: US 2001/0019630 A1, Pub Date: 09/06/01, 91 Pgs.	
	2	LI, ET AL., "A FUZZY LOGIC APPROACH TO IMAGE SEGMENTATION", Dept of Computer Science, Utah State University, Logan, UT., 1994 IEEE, Pgs. 337-340.	
	3	ACHARYA, ET AL., "A NEW BLOCK MATCHING BASED COLOR INTERPOLATION ALGORITHM", Intel Corp, Digital Imaging and Video Division, Chandler AZ, Pgs. 1-3.	
	4	ADAMS, JR., "INTERACTIONS BETWEEN COLOR PLANE INTERPOLATION AND OTHER IMAGE PROCESSING FUNCTIONS IN ELECTRONIC PHOTOGRAPHY", Eastman Kodak Co, Imaging Research and Advanced Development, Rochester NY, SPIE Vol. 2416, Pgs. 144-151.	
	5	"IMAGE PROCESSING AND MACHINE VISION", Chapter 4, Pgs.327-330.	
	6	ROSENFELD, "FUZZY DIGITAL TOPOLOGY", Computer Science Center, University of Maryland, January 1979, Vol. 40, No. 1, Academic Press, Inc., Pgs. 331-339.	
	7	ROSENFELD, "THE FUZZY GEOMETRY OF IMAGE SUBSETS", Center for Automation Research, University of Maryland, College Park, MD, Sept. 1984, Vol. 2, Pgs 340-346.	
	8	DYER, ET AL., "THINNING ALGORITHMS FOR GRAY-SCALE PICTURES", IEEE January 1979, Vol. PAMI-1 No. 1, Pgs., 347-348.	
	9	PAL, ET AL., "IMAGE ENHANCEMENT USING SMOOTHING WITH FUZZY SETS", IEEE July 1981, Vol. SMC-11, No. 7., Pgs. 349-356.	
	10	LI, ET AL., "FAST AND RELIABLE IMAGE ENHANCEMENT USING FUZZY RELAXATION TECHNIQUE", IEEE Sept/Oct 1989, Vol. SMC-19, No. 5, Pgs. 357-361.	
	11	TANKA, ET AL., Image & Info Research Institute, Dai Nippon Printing Co., Tokyo Japan, Vol. 5, No. 3, Copy right 1991 by Elsevier Science Publishing Company, Pgs. 362-368.	
	12	PAL, ET AL., "IMAGE ENHANCEMENT AND THRESHOLDING BY OPTIMIZATION OF FUZZY COMPACTNESS", Center for Automation Research, University of Maryland, College Park MD, February 1988, Vol. 7, Pgs.369-378.	
mt	13	LIM, ET AL., "ON THE COLOR IMAGE SEGMENTATION ALGORITHM BASED ON THE THRESHOLDING AND THE FUZZY C-MEANS TECHNIQUES", Copy Right 1990, Pergamon Press Plc., Vol. 23, No 9, Pgs. 379-396.	

Examiner Signature	<i>W. Hanlon</i>	Date Considered	7/31/03
-----------------------	------------------	--------------------	---------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

\*Unique citation designation number. †Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside this box → ☐

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	09/410,800
				Filing Date	October 1, 1999
				First Named Inventor	Tinku Acharya
				Group Art Unit	Not Assigned
				Examiner Name	Not Assigned
				Attorney Docket Number	42390P7331
Sheet	2	of	3		

RECEIVED  
DEC 02 2002  
Technology Center 2600

IDS cite1 no other		OTHER ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
nt	14	HUNTSBERGER, ET AL., "REPRESENTATION OF UNCERTAINTY IN COMPUTER VISION USING FUZZY SETS", IEEE February 1986, Vol. C-35, No. 2, Pgs. 397-407.	
	15	ACHARYA, "A MEMORY BASED VLSI ARCHITECTURE FOR IMAGE COMPRESSION", Application No. 08/885,415, Filing date 6/30/97, Attorney Docket No. 042390.P4425, 37 Pgs.	
	16	BAWOLEK, ET AL., "INFRARED CORRECTION SYSTEM", Application No. 09/126,203, Filing date 7/30/98, Docket No. 042390.P6172, 23 Pgs.	
	17	PAZMINO, ET AL., "METHOD OF COMPRESSING AND/OR DECOMPRESSING A DATA SET USING SIGNIFICANCE MAPPING", Application No. 09/151,336, Filing date 9/11/98, Docket No. 042390.P6391, 26 Pgs.	
	18	TAN, ET AL., "REDUCTION OF RINGING ARTIFACTS AFTER DECOMPRESSION OF A DWT-BASED COMPRESSED IMAGE", Application No. 09/165,511, Filing date 10/2/98, Docket No. 042390.P6220, 20 Pgs.	
	19	TAN, ET AL., "ROBUST SEQUENTIAL APPROACH IN DETECTING DEFECTIVE PIXELS WITHIN AN IMAGE SENSOR", Application No. 09/191,310, Filing date 11/13/98, Docket No. 042390.P6575, 35 Pgs.	
	20	ACHARYA, ET AL., "COLOR INTERPOLATION FOR A FOUR COLOR MOSAIC PATTERN", Application No. 09/199,836, Filing date 11/24/98, Docket No.042390.P6376, 26 Pgs.	
	21	ACHARYA, "A MATHEMATICAL MODEL FOR GRAY SCALE AND CONTRAST ENHANCEMENT OF DIGITAL IMAGE", Application No. 09/207,753, Filing date 12/8/98, Docket No. 042390.P6217, 28 Pgs.	
	22	ACHARYA, "ENHANCING IMAGE COMPRESSION PERFORMANCE BY MORPHOLOGICAL PROCESSING", Application No. 09/291,810, Filing date 4/14/99, Docket No. 042390.P6878, 31 Pgs.	
	23	TAN, ET AL., "USING AN ELECTRONIC CAMERA TO BUILD A FILE CONTAINING TEXT", Application No. 09/301,753, Filing date 4/29/99, Docket No. 042390.P5742, 21 Pgs.	
	24	TSAI, ET AL., "METHOD AND APPARATUS FOR ADAPTIVE SHARPENING AN IMAGE", Application No. 09/320,192, Filing date 5/26/99, Docket No. 042390.P6452, 27 Pgs.	
	25	TAN, ET AL., "METHOD AND APPARATUS FOR ADAPTIVELY SHARPENING LOCAL IMAGE CONTENT OF AN IMAGE" Application No. 09/328,935, Filing date 6/9/99, Docket No. 042390.P7125, 29 Pgs.	
	26	TAN, ET AL., "A HARDWARE EFFICIENT WAVELET-BASED VIDEO COMPRESSION SCHEME", Application No. 09/342,863, Filing date 6/29/99, Docket no. 042390.P6529, 32 Pgs.	
nt	27	TAN, ET AL., "A METHODOLOGY FOR COLOR CORRECTION WITH NOISE REGULATION", Application No. 09/359,231, Filing date 7/23/99, Docket No. 042390.P7320, 30 Pgs.	

Examiner Signature	<i>A. J. Charlson</i>	Date Considered	7/31/03
--------------------	-----------------------	-----------------	---------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet

of

**Complete if Known**

Application Number	09/410,800
Filing Date	October 1, 1999
First Named Inventor	Tinku Acharya
Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	42390P7331

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]Examiner  
Signature

Date	
Considered	

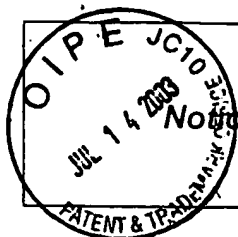
8/1/03

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (05-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 05/02/2003.

Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



# Notice of References Cited

Application/Control No.

09/461,080

Applicant(s)/Patent Under

Reexamination

ACHARYA, TINKU

Examiner

Ali Bayat

Art Unit

2625

Page 1 of 1

## U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,729,691	03-1998	Agarwal, Robit	709/247
	B	US-6,411,333	06-2002	Auld et al.	348/441
	C	US-6,259,819	07-2001	Andrew et al.	382/248
	D	US-6,208,350	03-2001	Herrera, Alex John	345/582
	E	US-6,002,446	12-1999	Eglit, Alexander J.	348/581
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

## FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

## NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.